"RESTORATION IMPROVEMENTS OF MAHALAKSHMI LAYOUT, BALAJI LAYOUT, BEST COUNTRY-II & III, BHASKAR REDDY, ANDHRA LAYOUT, TIRUMALANAGARA AND SURROUNDING AREAS IN WARD NO-03 OF YELHANKA NEW TOWN SUB DIVISION (PAKAGE NO-10)"

Quality Control Reports

Book No -02

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

ME OF WORK: Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New vn Sub division (PACKAGE NO - 10)

O	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
	Materials					
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೬೫

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8	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	5 set /50-100 cum	51.1	4	4
10	RCC(M20)	Compressive Strength(7days and 28days)	3 set /6-15 cum	12.07	8	8
11	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	5 set /100-150 cum	137.84	8	8
12	GSB	SIEVE ANALYSIS	One Test		1	1
13	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
	TACK COAT	Rate of spread	One Test		1	1
	Thermoplastic Compound	Colour	One Test		1	1
		Softening Point	One Test		1	1
		Luminance Factor	One Test		1	1
		Cracking Resistance	One Test		1	1
		Skid Resistance	One Test		1	1
		Yellow Index (For White Thermoplastic Plant)	One Test		1	1
		Drying Time	One Test		1	1
		Binder Content	One Test		1	1
		Glass Beads Content	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-04-29-31** **Date: 24-03-22**
Project Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)
Agency	:	M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
Date of Receipt	:	22-03-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-03-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-04-29-31 **Date: 25-03-22**
Project Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)
Agency	:	M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
Date of Receipt	:	22-03-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-04-29-31 **Date: 24-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 22-03-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 22-03-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-04-29-31 Date: 24-03-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST RESULTS OF STEEL

ab ID : CP-2022-04-29-31 Date: 23-03-22

roject Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

gency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

ustomer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

ate of Receipt : 22-03-22

mple Type : Sunvik

ference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

te of test: : 22-03-22

.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

he results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-04-29-31

Date: 04/04/2022

ect Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

ncy : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

omer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

of Receipt : 28-03-22

omer ID : PCC

ple Type /Size : 150X150X150 mm

ple grade/Age : M15 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 02/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
PCC	M15	26/03/2022	02/04/2022	149.52 X 149.01 X 151.61	22280	8.712	274.1	12.3	12.4
PCC	M15	26/03/2022	02/04/2022	151.12 X 151.70 X 151.82	22925	9.017	289.1	12.6	
PCC	M15	26/03/2022	02/04/2022	149.32 X 150.77 X 149.61	22512	8.966	279.6	12.4	

esults obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-04-29-31

Date: 04/04/2022

ect Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

ncy : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

omer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

of Receipt : 28-03-22

omer ID : PCC

ple Type /Size : 150X150X150 mm

ple grade/Age : M15 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 02/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
PCC	M15	26/03/2022	02/04/2022	151.83 X 149.60 X 149.41	22713	8.927	280.6	12.4	12.5
PCC	M15	26/03/2022	02/04/2022	149.72 X 150.91 X 151.62	22595	8.528	277.1	12.3	
PCC	M15	26/03/2022	02/04/2022	150.10 X 151.08 X 151.16	22677	8.510	289.3	12.8	

esults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-04-29-31

Date: 23/04/2022

ject Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

ncy : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

tomer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

: of Receipt : 28-03-22

tomer ID : PCC

ple Type /Size : 150X150X150 mm

ple grade/Age : M15 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 23/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	26/03/2022	23/04/2022	149.91 X 151.89 X 149.51	22770	8.657	390.2	17.1	17.3
PCC	M15	26/03/2022	23/04/2022	150.13 X 150.83 X 149.32	22644	8.572	401.9	17.7	
PCC	M15	26/03/2022	23/04/2022	150.28 X 151.39 X 149.89	22750	8.444	390.4	17.2	

esults obtained are satisfactory as per standard requirements.

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ID : CP-2022-04-29-31

Date: 23/04/2022

ject Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

ncy : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

tomer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

: of Receipt : 28-03-22

tomer ID : PCC

ple Type /Size : 150X150X150 mm

ple grade/Age : M15 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 23/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
PCC	M15	26/03/2022	23/04/2022	151.88 X 149.68 X 151.16	22733	8.111	395.5	17.4	17.7
PCC	M15	26/03/2022	23/04/2022	151.09 X 151.61 X 151.94	22907	8.270	410.7	17.9	
PCC	M15	26/03/2022	23/04/2022	150.80 X 149.56 X 150.61	22554	8.533	400.7	17.8	

results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-04-29-31

Date: 04/04/2022

ect Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

ncy : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

omer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

of Receipt : 29-03-22

omer ID : Culvert Bottom Raft - Andhra Layout 1st Cross Road

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 03/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	03/04/2022	151.44 X 149.36 X 151.51	22618	8.583	428.9	19.0	18.7
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	03/04/2022	149.81 X 149.16 X 151.44	22346	8.799	410.4	18.4	
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	03/04/2022	151.29 X 151.87 X 149.38	22976	8.851	431.4	18.8	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-04-29-31

Date: 25/04/2022

ect Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

cy : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

omer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

of Receipt : 29-03-22

omer ID : Culvert Bottom Raft - Andhra Layout 1st Cross Road

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 28 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 24/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	24/04/2022	150.81 X 151.30 X 151.62	22818	8.706	530.0	23.2	23.0
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	24/04/2022	150.63 X 150.95 X 150.42	22737	8.134	518.2	22.8	
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	24/04/2022	150.19 X 151.54 X 151.07	22760	8.416	526.3	23.1	

esults obtained are satisfactory as per standard requirements.

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ID : CP-2022-04-29-31

Date: 25/04/2022

ject Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

ncy : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

tomer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

e of Receipt : 28-03-22

tomer ID : Culvert Bottom Raft - Andhra Layout 1st Cross Road

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

e of test : 24/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	24/04/2022	150.63 X 149.92 X 150.37	22582	8.191	541.4	24.0	23.5
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	24/04/2022	150.24 X 151.66 X 151.77	22787	8.494	524.0	23.0	
Culvert Bottom Raft - Andhra Layout 1st Cross Road	M20	27/03/2022	24/04/2022	150.92 X 150.62 X 149.31	22731	8.722	535.2	23.5	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022-04-29-31 **Date: 29/04/2022**
ect Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)
ncy	:	M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064
omer's Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
of Receipt	:	04-04-22
omer ID	:	CC Road - Vijayabank Layout 1st Cross Road
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
of test	:	29/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
CC Road - Vijayabank Layout 1st Cross Road	M30	01/04/2022	29/04/2022	149.62 X 150.50 X 149.55	22519	9.038	755.2	33.5	32.9
CC Road - Vijayabank Layout 1st Cross Road	M30	01/04/2022	29/04/2022	151.77 X 149.15 X 150.71	22636	9.017	727.1	32.1	
CC Road - Vijayabank Layout 1st Cross Road	M30	01/04/2022	29/04/2022	149.33 X 150.22 X 150.63	22431	8.247	743.9	33.2	

he results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/04/2022

ID	:	CP-2022-04-29-31
ect Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)
ncy	:	M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064
tomer's Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
e of Receipt	:	04-04-22
tomer ID	:	CC Road - Vijayabank Layout 1st Cross Road
uple Type /Size	:	150X150X150 mm
uple grade/Age	:	M30 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
e of test	:	08/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
CC Road - Vijayabank Layout 1st Cross Road	M30	01/04/2022	08/04/2022	151.05 X 151.76 X 151.58	22923	8.217	576.8	25.2	25.4
CC Road - Vijayabank Layout 1st Cross Road	M30	01/04/2022	08/04/2022	151.42 X 149.02 X 150.98	22565	8.439	598.1	26.5	
CC Road - Vijayabank Layout 1st Cross Road	M30	01/04/2022	08/04/2022	149.36 X 149.52 X 151.59	22333	8.408	546.6	24.5	

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-04-29-31

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Date: 30-03-22

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 28-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 28-03-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2022-04-29-31

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Date: 04-04-22

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 31-03-22

Type of Mix : DBM-Plant (Dense Bituminous Macadam)

Date of test : 31-03-22

Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	255	255	5.10	94.90	90-100
19	345	600	12.00	88.00	71-95
13.2	452	1052	21.04	78.96	56-80
4.75	1762	2814	56.28	43.72	38-54
2.36	425	3239	64.78	35.22	28-42
0.3	1342	4581	91.62	8.38	7-21
0.075	265	4846	96.92	3.08	2-8
PAN	200	5046	0.00	0	0

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

ple ID	:	CP-RW-2022-04-29-31
Project Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)
Agency	:	M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
Date of Receipt	:	30-03-22
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	30-03-22

Date: 01-04-22

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	9.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	11.0		
Strength	Aggregate Impact Value	24.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

The results obtained are satisfactory as per standard requirements.

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2022-04-29-31 **Date: 04-04-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 31-03-22

Type of Mix : DBM (Dense Bituminous Mecadam)

Date of test : 31-03-22

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.25	11.76	9KN(Min)
2	Marshal flow at 60°C, mm	3.56	3.74	2-4
3	Percent air Voids	4.62	4.13	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.62	14.69	13-15
5	Percent Voids filled with Bitumen(VFB %)	69.32	71.24	65-75
6	Density, g/cc	2.41	2.42	–

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2022-04-29-31

Date: 06-04-22

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 05-04-22

Type of Mix : DBM (Andhra Layout 1st Cross Road)

Date of test : 05-04-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.0	4.8
4	Average percentage	%	4.9	

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Quality Manager

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜ ಜ ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Lab ID : CP-RW-2022-04-29-31

Date: 07-04-22

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.8	14.8	3.10	96.9	90-100
19	28	42.8	8.97	91.0	71-95
13.2	125	167.8	35.18	64.8	56-80
4.75	98	265.8	55.72	44.3	38-54
2.36	75	340.8	71.45	28.6	28-42
0.3	75	415.8	87.17	12.8	7-21
0.075	45	460.8	96.60	3.4	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.8	14.8	3.10	96.9	90-100
19	28	42.8	8.97	91.0	71-95
13.2	125	167.8	35.18	64.8	56-80
4.75	98	265.8	55.72	44.3	38-54
2.36	73	338.8	71.03	29.0	28-42
0.3	63	401.8	84.23	15.8	7-21
0.075	52.8	454.6	95.30	4.7	2-8

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

End of Report

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೬೪

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Certificate No.: TC-5548

Lab ID : CP-RW-2022-04-29-31 Date: 11-04-22

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.4	14.4	3.02	97.0	90-100
19	27	41.4	8.68	91.3	71-95
13.2	120	161.4	33.84	66.2	56-80
4.75	94	255.4	53.54	46.5	38-54
2.36	80	335.4	70.31	29.7	28-42
0.3	62.8	398.2	83.48	16.5	7-21
0.075	52.8	451	94.55	5.5	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.8	14.8	3.11	96.9	90-100
19	24	38.8	8.15	91.8	71-95
13.2	128	166.8	35.04	65.0	56-80
4.75	96	262.8	55.21	44.8	38-54
2.36	78	340.8	71.60	28.4	28-42
0.3	62.5	403.3	84.73	15.3	7-21
0.075	52.8	456.1	95.82	4.2	2-8

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

	:	CP-RW-2022-04-29-31 Date: 05-04-22
t Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)
y	:	M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064
mer Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
of Receipt	:	01-04-22
of Mix	:	BC-Plant (Bituminous Concrete)
of test	:	01-04-22
Dry Weight	:	5000 Grams

Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

ne results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2022-04-29-31

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Date: 04-04-22

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 02-04-22

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 02-04-22

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	92	92	1.8	98.2	90-100
9.5	705	797	15.9	84.1	70-88
4.75	897	1694	33.9	66.1	53-71
2.36	589	2283	45.7	54.3	42-58
1.18	732	3015	60.3	39.7	34-48
0.6	506	3521	70.4	29.6	26-38
0.3	500	4021	80.4	19.6	18-28
0.15	350	4371	87.4	12.6	12-20
0.075	352	4723	94.5	5.5	4-10
PAN	275	4998	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2022-04-29-31
Project Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)
Agency	:	M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
Date of Receipt	:	02-04-22
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	02-04-22

Date: 05-04-22

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.5	1.5		

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

b ID	:	CP-RW-2022-04-29-31
oject Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)
gency	:	M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064
stomer Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
ate of Receipt	:	01-04-22
pe of Mix	:	BC (Bituminous Concrete)
ate of test	:	01-04-22

Date: 04-04-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

LNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Lab ID : CP-RW-2022-04-29-31

Date: 11-04-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Lab ID : CP-RW-2022-04-29-31

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Date: 12-04-22

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 09-04-22

Type of Mix : BC (Andhra Layout 4th Cross Road)

Date of test : 09-04-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.80
4	Average percentage	%	5.7	

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Lab ID : CP-RW-2022-04-29-31

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Date: 13-04-22

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 10-04-22

Type of Mix : BC (Andhra Layout 1st Main Road)

Date of test : 10-04-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2022-04-29-31

Date: 15-04-22

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 12-04-22

Type of Mix : BC (Andhra Layout 5th Cross Road)

Date of test : 12-04-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

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Certificate No.: TC-5548

TEST REPORT ON BITUMEN

Format No: CP/TF/01

Lab ID : CP-RW-2022-04-29-31

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Date: 30-03-22

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 28-03-22

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)

Date of test : 28-03-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

* The results obtained are satisfactory as per standard requirements.

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End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2022-04-29-31

Date: 11-04-22

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer Reference : BBMP/EE/YNK D/EPMT-08/W.O/107/2021-22

Date of Receipt : 10-04-22

Type of Mix : Tack coat

Date of test : 10-04-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.267
7	Average	Kg/sq.m	0.261	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT ON THERMOPLASTIC COMPOUND

Format No: CP/TF/01

Lab ID : CP-2022-04-29-31

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County - II & III, Bhaskar Reddy, Andhra layout, thirumalanagara and surrounding areas in ward no - 03 of Yelahanka New Town Sub division (PACKAGE NO - 10)

Date: 24-04-22

Agency : M/s SMPL Asphalts (Pro B.B. Umesh), No;1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore - 560064

Customer's Reference : BBMP/EE/YNK D/EPMT-08/W.O/107/2021-22

Date of Receipt : 19-04-22

Sample Type : Thermoplastic Compound

Reference to BIS codes : ASTM D36/BS-3262-(Part-I)

Date of test : 19-04-22

Test Results

Sl.no	Name of Test	Result	Requirements as per Morth 803
1	Colour	White	White/Yellow
2	Softening Point	109°C - 110°C	102.5±9.5°C as Per ASTM D:36
3	Luminance Factor	Sartisfactory	White: Daylight Luminanceat 45-65 Percent min, as per AASHTO M:249. Yellow: Daylight lumunanace at 45-45 percent min, as per AASHTO M:249
4	Cracking Resistance	No Cracks found on application	The Material shall show no Cracks on application
5	Skid Resistance	49	Not Less than 45 as per BS:6044
6	Yellow Index (For White Thermoplastic Plant)	0.08	Not More than 0.12 as per AASHTO M:249
7	Drying Time	13	When Applied at a temperature specified by the manufacture and to the required thickness, the material shall mset to heat traffic in not more than 15 minutes
8	Binder Content % by Weight	21%	White & yellow 18 minutes as per Section 800 in Table 800-9
9	Glass Beads Content % by Weight	30	30-30

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

K KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date. BANGALORE

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ

****End of Report****

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